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- Lys Cys Val Asp Leu Asp Cys Asp Gly Met Ile Ile Leu Asn Glu Met 435 440 445
- Gln Tyr Phe Tyr Glu Glu Gln Leu His Arg Met Glu Cys Met Ala Gln 450 455 460

Glu Pro Val Leu Phe Glu Asp Ile Val Cys Gln Met Thr Asp Met Ile 465 470 475 480

Gly Pro Ala Asn Glu Gly Arg Leu Thr Leu Arg Asp Leu Lys Arg Cys 485 490 495

Lys Leu Ser Gly Asn Phe Phe Asn Ile Leu Phe Asn Leu Asn Lys Phe 500 505 510

Val Ala Phe Glu Thr Arg Asp Pro Phe Leu Ile Arg Gln Glu Arg Glu 515 520 525

Asp Pro Ser Leu Thr Glu Trp Asp Arg Phe Ala His Ile Glu Tyr Ile 530 535 540

Arg Leu Ser Met Glu Glu Asp Gly Glu Asp Ala Ser Asn Gly Ser Ala 545 550 555 560

Glu Val Trp Asp Glu Pro Gly Tyr Glu Ala Pro Phe 565 570

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Ser Gln Val Phe Gly Glu Arg Ala Ile Gly Glu Glu Val Gln Glu Val
35 40 45

Asp Ile Ile Ser Ala Ile Glu Phe Asp Lys Thr Gly Glu His Leu Ala
50 55 60

Thr Gly Asp Arg Gly Gly Arg Val Val Leu Phe Glu Arg Thr Asp Gly 65 70 75 80

Lys Asp Gln Arg Thr Arg Arg Glu Leu Glu Arg Ala Asp Ser Ala Gly
85 90 95

Ser Arg His Pro Glu Tyr Arg Tyr Ser Thr Glu Phe Gln Ser His Glu 100 105 110

Pro Glu Phe Asp Tyr Leu Lys Ser Leu Glu Ile Glu Glu Lys Ile Asn 115 120 125

Lys Ile Arg Trp Cys Gln Thr Ala Asn Ala Ala Gln Phe Leu Ile Ser 130 135 140

Thr Asn Asp Lys Thr Ile Lys Leu Trp Lys Val Thr Glu Lys Lys Val 145 150 155 160

- Lys Gln Val Lys Asn Leu Asn Val Asp Pro Gly Ala Arg Gly Asn Gly
 165 170 175
- Asn Pro Leu Ser Asn Asn Met Met Leu Asn Pro Lys Gly Phe Ala Pro 180 185 190
- Arg Leu Ser Met Asn Gly Val Ala Ala Asn Arg Ser Thr Pro Ala Ile 195 200 205
- Ser Pro Asp Phe Val Phe Pro Pro Gly Gly Ile Pro Ser Leu His Leu 210 215 220
- Pro Ser Val Trp Ser Asn Glu Thr Ala Leu Val Ala Arg Cys Arg Arg 225 230 235 240
- Ala Tyr Ala Asn Ala His Ala Tyr His Ile Asn Ser Ile Ser Asn Asn 245 250 255
- Ser Asp Cys Glu Thr Tyr Ile Ser Ala Asp Asp Leu Arg Ile Asn Leu 260 265 270
- Trp Asn Leu Glu Val Ser Asp Gln Ser Phe Asn Ile Val Asp Ile Lys 275 280 285
- Pro Thr Asn Met Glu Asp Leu Thr Glu Val Ile Thr Ser Ala Glu Phe 290 295 300
- His Pro Ser His Cys Asn Val Leu Ala Tyr Ser Ser Ser Lys Gly Ser 305 310 315 320
- Ile Arg Leu Ile Asp Met Arg Gln Ser Ala Leu Cys Asp Arg His Ser 325 330 335
- Lys Leu Phe Glu Glu Thr Glu His Ala Gly Ser Arg Ser Phe Phe Thr 340 345 350
- Glu Ile Ile Ala Ser Ile Ser Asp Ile Lys Phe Ala Arg Gly Gly Arg 355 360 365
- Tyr Ile Leu Ser Arg Asp Tyr Met Thr Leu Lys Leu Trp Asp Val Asn 370 375 380
- Met Glu Ser Ser Pro Val Ala Val Phe Lys Val His Glu Tyr Leu Arg 385 390 395 400
- Pro Lys Leu Cys Asp Leu Tyr Glu Asn Asp Ser Ile Phe Asp Lys Phe 405 410 415
- Glu Cys Cys Leu Ser Gly Asp Gly Met Arg Val Ala Thr Gly Ser Tyr 420 425 430
- Ser Asn Leu Phe Arg Val Phe Gly Ala Ala Thr Gly Ser Glu Glu Ala 435 440 445
- Ser Thr Leu Glu Ala Ser Lys Thr Pro Asn Arg Arg Ile Val Thr Pro 450 455 460

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	Pro 465	Ser	Lys	Ala	Gly	Ser 470	Arg	Leu	Ala	Asn	Leu 475	Ala	Arg	Gly	Arg	Arg 480
7	Asp	Asn	Arg	Arg	Gly 485	Gly	Glu	Ser	Pro	Gly 490	Ile	Asp	Leu	Asn	Gly 495	Gly
•	Val	Gln	Asp	Phe 500	Thr	Ser	Lys	Leu	Leu 505	His	Leu	Ala	Trp	His 510	Pro	Ala
	Ala	Asn	Val 515	Ile	Ala	Phe	Ala	Leu 520	Ala	Arg	Cys	Ser	Leu 525	His	Pro	Thr
	Ala	Сув 530	Thr	Cys			• •		•				٠			
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		Pro		Tyr	Ala . 5	Asp	Val	Asp	Arg	Gln 10		Glu	Gln	Leu	Ser 15	Glu
	Сув	Lys	Pro	Leu 20	Ser	Glu	Leu	Glu	Val 25		Asn	Leu	Cys	Asp 30		Ala
	Arg	Thr	Ile 35		Val	Glu	Glu	Trp	Asn	Val	. Gln	Pro	Val 45	-	Cys	Pro
	Vaļ	Thr 50		Сув	Gly	Asp	Ile 55		Gly	Gln	n Phe	His 60	_	Leu	.Ile	Glu
	Leu 65		Arg	, Ile	Gly	Gly 70		Ala	Pro	Asp	75		Tyr	Leu	Phe	Met 80
	Gly	Asp	туг	Val	Asp 85		Gly	Tyr	Туг	Ser 90		Glu	Thr	Val	. Ser 95	Leu
	Leu	. Val	. Ala	Leu 100	Lys	Val	Arg	Tyr	105	J Asp	Arg	Ile	Thr	116 110	Leu	Arg
	Gly	/ Asr	His 115		Ser	Arg	Glr	120		Gli	n Val	l Tyr	125 125		туг	Asp
	Glu	1 Cys		ı Arg	Lys	Tyr	Gl _y		n Ala	a Ası	n Val	l Trp		з Туі	c Phe	Thr
	Asp 149		ı Phe	e Asp	туг	150		Leu	Th:	r Ala		ı Ile	e Gli	u His	s Glu	1 Ile 160
	Phe	е Суя	s Lei	ı His	Gly	, Gly	. Le	ı Sei	. Pro	Se:	r Le	u Asj	o Th	r Le	u Ası	His

170

Ile Arg Ala Leu Asp Arg Ile Gln Glu Val Pro His Glu Gly Pro Met 180 185 190

175

165

Cys Asp Leu Leu Trp Ser Asp Pro Asp Asp Arg Cys Gly Trp Gly Ile 195 200 205

Ser Pro Arg Gly Ala Gly Tyr Thr Phe Gly Gln Asp Ile Ala Glu Gln 210 215 220

Phe Asn His Thr Asn Gly Leu Ser Leu Val Ala Arg Ala His Gln Leu 225 230 235 240

Val Met Glu Gly Tyr Asn Trp Cys Gln Asp Lys Asn Val Val Thr Val 245 250 255

Phe Ser Ala Pro Asn Tyr Cys Tyr Arg Cys Gly Asn Met Ala Ala Ile 260 265 270

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Arg Asp Ser Met Glu Asp Ala His Lys Ala Ile Leu Asn Val Asp Lys 35 40 45

Asn Thr Ser Thr Ser Ile Phe Gly Ile Phe Asp Gly His Gly Gly Lys
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Leu Val Ala Lys Phe Cys Ala Lys His Leu His Gln Glu Val Leu Lys 65 70 75 80

Ser Glu Ala Tyr Ala Lys Gly Asp Leu Lys Ala Ser Leu Glu Tyr Ser 85 90 95

Phe Leu Arg Met Asp Glu Met Met Lys Gly Ala Ser Gly Trp Lys Glu 100 105 110

Leu Gln Ser Leu Glu Glu Thr Ser Ser Gln Leu Asp Lys Leu Gly Asn 115 120 125

Gly Asn Ser Ser Ser Asn Ala Arg Glu Asp Asp Glu Ser Asp Tyr Ser 130 135 140

Tyr 145	Ala	Val	Leu	Thr	Glu 150	Ser	Asn	Asp	Ser	Asn 155	Leu	Ala	Thr		Lys 160
His	Lys	Tyr	Ser	Asp 165	Phe	Gln	Gly	Pro	Ile 170	Tyr	Gly	Ser	Thr	Ala 175	Val
Val	Ala	Leu	Ile 180	Arg	Gly	Asn	Lys	Leu 185		Val	Ala	Asn	Ala 190	Gly	Asp
Ser	Arg	Cys 195	Ile	Met	Ser	Arg	Arg 200		Glu	Ala	Val	Asn 205	Leu	Ser	Ile
Asp	His 210	Lys	Pro	Asn	Leu	Glu 215	His	Glu	Arg	Lys	Arg 220	Ile	Glu	Ser	Ala
Gly 225	Gly	Phe	Val	His	Gly 230	Gly	Arg	Val	Asn	Gly 235	Ser	Leu	Asn	Leu	Thr 240
Arg	Ala	Ile	Gly	Asp 245	Met	Glu	Phe	Lys	Gly 250	Arg	Pro	Asp	Leu	Pro 255	Pro
Asp	Lys	Gln	Val 260	Val	Thr	Cys	Сув	Pro 265	Asp	Val	Val	Glu	Val 270	Asp	Leu
Gly	Pro	Gly 275	Asp	Glu	Phe	Ile	Val 280		Ala	Сув	Asp	Gly 285	Ile	Trp	Asp
Val	Met 290	Ser	Ser	Gln	Ala	Val 295	Val	Asp	Phe	Val	Lys 300	Ser	Arg	Leu	Pro
Thr 305	Thr	Lys	Thr	Leu	Ser 310	Ser	Leu	Сув	Glu	Glu 315	Ile	Leu	Asp	Tyr	Сув 320
Leu	Ser	Pro	Thr	Thr 325		Gln	Gln	Glu	Gly 330	Cys	Asp	Asn	Met	Ser 335	Ile
Ile	Ile	Val	Gln 340	Pro	Lys	Gln	Ser	Gly 345	Val	Ala	Ala	Ser	Ser 350	Ser	Thr
Asp												:		. •	
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	0 > 1! 1 > 3'											•			
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- Gly Pro Glu Ala Ser Arg Tyr Val Asn Asp Ser Leu Tyr Arg His Leu 85 90 95
- Gln Lys Phe Ala Thr Gln His Gly Gly Met Ser Ser Glu Val Leu Gln
 100 105 110
- Gln Ala Phe Lys Gln Thr Glu Glu Gly Phe Leu Glu Ile Val Arg Asp 115 120 125
- Ser Trp Leu Thr Lys Pro Gln Ile Ala Ala Val Gly Ser Cys Cys Leu 130 135 140
- Val Gly Val Val Trp Glu Cys Lys Leu Tyr Ile Ala Ser Leu Gly Asp 145 150 155 160
- Ser Lys Ala Val Leu Gly Arg Phe Ser Arg Asn Leu Gln Ser Val Ile 165 170 175
- Ala Thr Glu Ile Ser Thr Glu His Asn Ala Ser Val Glu Ala Val Arg 180 185 190
- Gln Asp Leu Gln Ala Ala His Pro Asp Asp Pro Arg Ile Val Val Leu 195 200 205
- Arg His Gly Val Trp Arg Val Lys Gly Leu Ile Gln Val Ser Arg Ser 210 215 220
- Ile Gly Asp Val Tyr Leu Lys Lys Ala Glu Phe Asn Arg Glu Pro Leu 225 230 235 240
- Ile Gly Arg Phe Arg Leu Pro Glu Pro Leu Gln Arg Pro Val Met Ser 245 250 255
- Ala Glu Pro Asp Ile Arg Val Ile Asp Leu Thr Pro Asp Val Glu Phe 260 265 270
- Val Ile Phe Ala Ser Asp Gly Leu Trp Glu His Leu Ser Asn Gln Glu 275 280 285
- Ala Val Asp Ile Val His Lys Tyr Pro Arg Ala Gly Ile Ala Arg Gln 290 295 300
- Leu Ile Arg Tyr Ala Leu His Glu Ala Ala Lys Lys Arg Glu Met Arg 305 310 315 320
- Tyr Ser Asp Leu Lys Lys Ile Glu Arg Gly Ile Arg Arg His Phe His 325 330 335
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	The state of the s					
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J - J					9	
	• •					
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The state of the s	bequence.	FITMEL		
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.010. 40	٠.			
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